

TRIPURA



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**PART--I-- Orders and Notifications by the Government of Tripura,
The High Court, Government Treasury etc.**

**GOVERNMENT OF TRIPURA
ELECTION DEPARTMENT**

No.F.1(2)-CEO/ESTT/P&AP/2021/11883

Dated, Agartala, the 21st October, 2024.

NOTIFICATION

In exercise of the power conferred by the proviso to Article 309 of the Constitution of India, the Governor of Tripura in consultation with the Tripura Public Service Commission is hereby pleased to make the following rules regulating the method of recruitment to the post of **Programmer** under the Election Department, Government of Tripura, namely:-

1. **Short title and commencement:**
 - (a) These rules may be called “**Recruitment Rules, 2024**” for the post of **Programmer** under the Election Department, Government of Tripura.
 - (b) These shall come into force on the date of the publication in the Official Gazette.
2. The name of the post(s) shall be specified in Column – 1 of the schedule annexed hereto.
3. **Number, classification and scale of pay:-**
The number of the said post, its classification and the scale of pay attached thereto shall be as specified in Column 2 to 4 of the Schedule annexed hereto.
4. **Method of recruitment, age limit, qualification etc.:-**
The method of recruitment to the said post, age limit, qualifications and other matters relating to the said post shall be as specified in columns 5 to 13 of the said schedule.
5. **Disqualification:-** No person
 - (a) Who has entered into or contracted a marriage with a person having spouse living:
OR
 - (b) Who, having a spouse living, has entered into or contracted a marriage with any person.
Provided that the State Government may, if satisfied that such marriage is permissible under the personal law applicable to such person and the other party to the marriage and that there are other grounds for so doing, exempt any person from the operation of this rules.
6. **Power to relax:-**
Where the State Government is of the opinion that it is necessary or expedient to do so, it may relax the provision as mentioned above with respect of any class or category of persons or Posts.
7. **Repeal and Saving:-**
The Recruitment Rules for the aforementioned post existing in this Department are hereby repealed with immediate effect and are replaced by this Recruitment Rules.
8. **Saving:-**
Nothing in these rules shall effect reservations, relaxation of age limit and other concessions required to be provided for the Scheduled Castes, the Scheduled Tribes, Ex-serviceman and other special categories of persons in accordance with the orders issued by the State Government from time to time in this regard.
9. This Notification is issued as per Notification No.F.20(1)-GA(P&T)/18 dated 17th February, 2021 issued by the Government in the GA(P&T) Department.

By order of the Governor,

U.P. Moity
Addl. Chief Electoral Officer
Government of Tripura

S C H E D U L E

RECRUITMENT RULES FOR THE POST OF PROGRAMMER UNDER THE ELECTION DEPARTMENT, GOVERNMENT OF TRIPURA

1	Name of Post(s)	Programmer
2	No. of post(s)	1 (one) plus additional post(s) as and when created by the Government
3	Classification	Group-'B', Non Gazetted
4	Scale of pay	Rs.37,600/- (PB-3, Rs.10,230 -34,800/-, Cell-1, Level-11) as per Tripura State Pay Matrix-2018 (subject to revision by the Government from time to time)
5	Method of recruitment whether by direct recruitment or by promotion or by deputation/ transfer and percentage of the vacancies to be filled by various methods	(a) By direct recruitment through TPSC Examination as per provision of Revised Recruitment Policy vide No.20(1)-GA(P&T)/18 dated 29.10.2020 (b) Interview /Viva voce shall be not exceeding 15% of the Total Marks (c) Syllabus: - Enclosed at Annexure-I . (and as revised by the Government from time to time)
6	Age limit for direct recruitment	18-40 years. Upper age limit is relaxable by 5(five) years for ST/SC/PwDs(PH)/ Government Employee candidates
7	Educational and other qualifications required for direct recruitment	Essential: Essential: (i) At least MCA/M.Sc. (Computer Science)/ M.Sc.(Information Technology) or BE/ B.Tech. in Computer Engineering/Information Technology or higher. (ii) One year experience in software development along with database handling after acquiring the aforesaid qualification Desirable Qualification: Knowledge in Bengali or Kok-borok
8	Whether age and educational qualification prescribed for direct recruitment will apply in case of promotes	Not applicable
9	Whether Selection Post or Non-Selection Post	Selection Post
10	Period of probation, if any	2 (two) years
11	In case of recruitment by promotion/ deputation/transfer, grades from which promotion/ deputation/transfer is to be made.	Not applicable
12	If a D.P.C. exists, what is its composition	Not applicable
13	Circumstances in which TPSC is to be consulted in making recruitment.	As required under the Tripura Public Service Commission (Exemption from Consultation) Regulations, 1973.
14	Repeal	The existing Recruitment Rules for the post of Programmer notified vide No.F.1(2)-CEO/ESTT/2013(L)/ 9103-9107 dated 15 th October,2015 and all earlier subsequent amendments in this regard are hereby repealed.

By order of the Governor,



(U. J. Mog)
Addl. Chief Electoral Officer
Government of Tripura

ANNEXURE - A

SYLLABUS & SELECTION PROCEDURE

SCHEME OF EXAMINATION FOR DIRECT RECRUITMENT TO THE POST OF PROGRAMMER, GROUP-'B' NON GAZETTED UNDER ELECTION DEPARTMENT, GOVERNMENT OF TRIPURA

The Selection process consist of 2 (two) Successive stage

1. Written Examination
2. Interview/Personality Test

Sl. No	Written Exam		Marks	Duration
1.	General Ability Test Paper – I (MCQ)	English	15	180 Minutes (3 hours)
		General Mental Ability & Logical reasoning	15	
		GK & Current Affairs	20	
		Total	50	
	Job Oriented Subject Technical Paper-II	Job Oriented Subjects Technical Paper-II (MCQ)	120	
2.	Viva/Interview		30	
3.	Grand Total		200	

Details of the Syllabus:-

Sl. No.	Subjects	Syllabus		Marks
1.	General Ability Test Paper	English	English Composition will cover Synonyms, Antonyms, use of common Phrase & Idioms., use of appropriate Prepositions and Articles, Comprehension, Ordering of words in a sentence, Ordering of sentences, spotting of errors, use of appropriate and qualifying words. (OMR based MCQ Type - 15 Questions one mark each)	15
		General Mental Ability & Logical reasoning	Logical Reasoning, Analytical Reasoning Capabilities, Quantitative and Qualitative abilities, General Aptitude (OMR based MCQ Type - 15 Questions one mark each)	15
		General Knowledge & Current Affairs	(i) General Knowledge with special reference to Tripura and North Eastern States (ii) Elementary knowledge of Indian History and Indian Geography. (iii) Matter of common experience and current events and problems with special reference to Tripura, India and world. (OMR based MCQ Type & 20 Questions one mark each)	20
General Ability Test Paper - I				Total Marks = 50

<p>Job Oriented Subject Technical Paper-II</p> <p>2</p>	<p>Engineering Mathematics</p> <p>Section 1: Discrete Mathematics, Probability and Statistics:</p> <p>Compound Statements, Truth Tables, The Algebra of Propositions, Logical Arguments, Sets, Operations on Sets, Binary Relations, Partial Orders, Mathematical Induction, The Principle of Inclusion-Exclusion, Probability theory: Sample spaces, Events and probability, Discrete probability: Union, Intersection and Compliment of events, Conditional probability, Baye's theorem. Linear correlation coefficient, Linear regression, Non-Linear regression, Multiple correlation and Multiple regression, Theory of sampling and population.</p> <p>Computer Science and Information Technology</p> <p>Section 2: Digital Logic Systems and Microprocessors:</p> <p>Boolean algebra, Combinational and sequential circuits, Minimization, Number representations and computer arithmetic (fixed and floating point). Boolean expressions, K-maps, TTL and CMOS logic families, flip flop, combinational logic design, synchronous sequential system design. Microprocessors: 8085/86 architecture, data transfer scheme and interfaces, Addressing modes.</p> <p>Section 3: Computer Organization and Architecture</p> <p>Machine instructions and addressing modes, ALU, data path and control unit. Instruction pipelining, pipeline hazards. Memory hierarchy: cache, main memory and secondary storage; I/O interface (interrupt and DMA mode).</p> <p>Section 4: Operating System:</p> <p>Types of OS, System calls, processes, threads, inter process communication, concurrency and synchronization. Deadlock. CPU and I/O scheduling. Memory management and virtual memory. File systems.</p> <p>Section 5: Algorithms:</p> <p>Searching, sorting, hashing. Asymptotic notations, worst case time and space complexity. Algorithm design techniques: greedy, dynamic programming and divide and conquer. Graph traversals, minimum spanning trees, shortest paths</p> <p>Section 6: Data Structures :</p> <p>Array, Linked List, Stack, Queue, Priority Queues, Hashing, Binary trees, Tree traversal, AVL trees, Graphs- shortest paths, minimum spanning trees; Sorting and Searching algorithms.</p> <p>Section 7: Object Oriented Programming through C++/JAVA:</p> <p>Data Abstraction, Encapsulation, classes, constructors and destructors, dynamic memory allocation, Inheritance, Polymorphism, generic classes, exception handling and File processing. Java applets, Java features, Byte codes, wrapper classes, multithreading support classes, vector, stack, interface observer, stream tokenizer, GUI classes, Java I/O, classes, The Applet class, applet architecture, applet display methods and repainting.</p>	<p>120 Marks</p>
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	<p>Section 8: Software Engineering: System modeling, system engineering process, process life cycle models, design and implementation, validation and verification, evolution, automated, process support – software requirements, SRS, feasibility studies - elicitation and analysis - validation - management - system models, context models, behavior models, data models, object models, object-oriented design, design evolution, real-time software design, critical systems specifications - critical system development, software testing, cohesion, coupling, Cyclomatic complexity, CFG</p> <p>Section 9: Computer Networks Concept of layering: OSI and TCP/IP Protocol Stacks; Basics of packet, circuit and virtual circuit-switching; Data link layer: framing, error detection, Medium Access Control, Ethernet bridging; Routing protocols: shortest path, flooding, distance vector and link state routing; Fragmentation and IP addressing, IPv4, CIDR notation, Basics of IP support protocols (ARP, DHCP, ICMP), Network Address Translation (NAT); Transport layer: flow control and congestion control, UDP, TCP, sockets; Application layer protocols: DNS, SMTP, HTTP, FTP, Email.</p> <p>Section 10: Database Keys, E-R Model, Relational model: relational algebra, tuple, calculus, SQL, Integrity constraints, Normalization – 1NF to 5NF; Aggregate functions, Nested Sub queries, Views, Joined Relations, Transaction-ACID properties; Concurrency Control, triggers, stored procedures, concurrent transactions – its problems and solutions, distributed database.</p> <p>Section 11: Web Technologies: HTML5, CSS3, Bootstrap, XML, basic concept of client-server computing, web server, proxy server, web application development, MVC Architecture, web services, frontend technologies.</p> <p>Section 12: Cyber Security and Emerging Technologies: Secure programming techniques, OWASP top 10 vulnerabilities, concepts on IoT, Block chain, Securities in Mobile Technologies and its applications.</p>	
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(OMR based MCQ Type & 120 Questions one mark each)

- (i) Question paper for written examination will be of 170 marks (170 MCQ). Question will be MCQ type carrying 1(one) mark each.
- (ii) There will be negative marking of 0.25 mark for every wrong answer.
- (iii) Minimum qualification marks in MCQ test should be as per standing norms of TPSC.

- (iv) Accordingly, merit list of qualified candidates may be prepared considering 100 points roster as per the standing norms of Government of Tripura.
- (v) Each question will have 4(four) distracters. Some of the questions may have “None of these” as one of the distracters if felt necessary.
- (vi) Candidates must appear before the Selection Committee for interview/personality test.
- (vii) Final merit list will be prepared by adding both marks obtained in the written test followed by interview.
- (viii) Out of 30 marks allocated for interview, some marks to be allocated for Desirable Qualification as per Memorandum vide No.F.20(1)/GA(P&T)/2018 dated 02/01/2021 issued by the Govt. of Tripura.



Addl. Chief Electoral Officer
Government of Tripura